**CODE:**

#include<stdio.h>

#include<stdbool.h>

#include<stdlib.h>

bool isMonotonic(int\* nums, int numsSize){

int i,j;

bool c1=true,c2=true;

for(i=0;i<numsSize-1;i++)

{

if(\*(nums+i)< \*(nums+i+1))

c1=false;

}

for(i=0;i<numsSize-1;i++)

{

if(\*(nums+i)> \*(nums+i+1))

c2=false;

}

return c1||c2;

}

void main()

{

int \*nums;

int n;

printf("\nEnter the size of the array: ");

scanf("%d",&n);

nums=(int \*)malloc(n\*sizeof(int));

printf("\nEnter the array: \n");

for(int i=0;i<n;i++)

{

scanf("%d",(nums+i));

// printf("\n%d",\*(nums+i));

}

printf("\nArray is Monotonic: ");

if(isMonotonic(nums,n)==true)

{

printf("True");

}

else

printf("False");

}

**OUTPUT:**



